

Surface Levelling

SOV/154-59-3-7/19

It requires the least field and office work. Among the text-books quoted there are those by Professor A. S. Chobotarev and Professor P. I. Shilov. There are 3 figures.

ASSOCIATION: Belorusskiy institut inzhenerov zheleznodorozhnogo transporta  
(Belorussian Institute of Railroad Engineers)

SUBMITTED: March 19, 1958

Card 2/2

S/006/60/000/05/03/024  
B007/B123

AUTHOR: Kupchinov, I. I., Candidate of Technical Sciences  
TITLE: Adjustment of Directions in Triangulation Nets ✓

PERIODICAL: Geodeziya i kartografiya, 1960, No. 5, pp. 10-17

TEXT: In his publication "Adjustment of Traverse and Triangulation Nets" (Ref., footnote on p. 10) the author introduced a method for adjusting these nets. He developed formulas and schemes for the accurate adjustment of directions in free and unfree triangulation nets by evaluating the accuracy of measured elements and their functions. It is pointed out that the use of these formulas for adjusting large nets, and of triangulation nets in towns and mines is far more efficient than using the formulas for the adjustment according to conditioned observations. When using these formulas for the adjustment of unfree nets the conditional equations for the direction angles need not be set up as they are eliminated automatically during calculation. As far as the development of these formulas was dealt with in the article mentioned, formulas (1) and (10) are written down here, and their application is illustrated by an example for the case

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Adjustment of Directions in Triangulation Nets

S/006/60/000/05/03/024  
R007/B123

of equal observations. Finally, it is pointed out that only with a given number of fixed points it is more suitable to use the method of adjustment according to conditioned observations. There are 3 figures, 3 tables, and 1 Soviet reference.

Card 2/2

KUPCHINOV, I.I., dotsent

Adjustment of traverses considering the coefficient of the effect  
of constant systematic errors in linear measurements. Izv.vys.  
ucheb. zav.; geod. i aerof. no.5:29-34 '60. (MIRA 13:12)

1. Belorusskiy institut inzhenerov zheleznodorozhnogo transporta.  
(Traverses (Surveying))

KUPCHINOV, I.I., kand.tekhn.nauk

Scheme for the adjustment of the astrogeodetic network of the  
U.S.S.R. Geod. i kart. no.7:7-8 J1 '60. (MIRA 13:9)  
(Triangulation)

KUPCHINOV, I.I., dotsent, kand.tekhn.nauk

Adjustment of directions in triangulation networks. Izv.  
vys. ucheb. zav.; geod. i aerof. no.3:65-72 '61.

(MIRA 14:10)

1. Belorusskiy institut inzhenerov zheleznodorozhnogo  
transporta.

(Triangulation)

(Errors, Theory of )

KUPCHINOV, Ivan Iosifovich, kand. tekhn. nauk, dots.; IPATOV, I.I.,  
red.; VASIL'YEVA, V.I., red. izd-va; SINGUROV, V.S., tekhn.  
red.

[Compensation of triangulation and traverse networks; method of  
conditional equations with nonmeasurable unknowns] Uravnovesiva-  
nie setei triangulatsii i poligonometrii; metod uslovnykh urav-  
nenii s neizmeriaemyi neizvestnymi. Moskva, Geodezizdat, 1962.  
194 p. (MIRA 15:7)

(Geodesy)

KUPCHINOV, I.I., prof., doktor tekhn. nauk

Use of the electronic digital computer "Ural" in two-group  
traverse adjustment. Izv. vys. ucheb. zav.; geod. i aerof.  
no.5:13-19 '63. (MIRA 17:8)

1. Belorusskiy institut inzhenerov zheleznodorozhnogo transporta.



KUPCHINOV, I.I.; VILENSKIY, V.R.

Adjusting polygonometric nets on an electric computer. Geod.  
i kart. no.6:17-22 Je '64. (MIRA 17:9)

L 3874-66 EWT(1) GW

AM5023907

BOOK EXPLOITATION

UR/

528.3:624.057.1

Kupchinov, Ivan Iosifovich; Lebedev, Sergey Malakhiyevich

27  
671

Surveying in large-scale industrial construction (Geodeziya pri  
krupnom promyshlennom stroitel'stve) 2d ed., rev. Moscow, Izd-vo  
"Nedra," 1965. 299 p. illus., biblio. 4250 copies printed.

TOPIC TAGS: geodesy, geodetic survey, industrial construction,  
underground construction

PURPOSE AND COVERAGE: This is the second edition of a textbook on  
engineering geodesy, first published in 1957. The book deals  
with the problems of plotting geodetic networks and surveying the  
construction sites, as well as geodetic work in technical research  
on above-ground and underground means of transportation (industrial  
railroads, highways, pipelines, power and communication lines, etc).  
The layout of a construction network is analyzed in detail. Geodetic  
work to be completed in the process of construction of big industrial  
objects is outlined. The problems of geodesy are presented in con-  
nection with the technology of designing and building operations,

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taking into account the application of the latest achievements of science and technology. The book is intended for engineers and technical geodesists, working in the field of planning, research, and construction of large industrial enterprises. It may also serve as a textbook for the students of geodesy at engineering institutes. There are 78 references, all Soviet.

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SUB CODE: ES, IE

SUBMITTED: 12Feb65

NO REF SOV: 079

OTHER: 000

  
Card

4/4

L 00808-67

ACC NR: AR6014274

SOURCE CODE: UR/0270/65/000/011/0037/0037

AUTHORS: Kupchinov, I. I.; Lebedev, S. M.; Vilenskiy, V. R.; Protsko, D. V. 41

TITLE: The balancing of leveling, theodolitic, polygonometric, and trigonometric networks with the "Ural" electronic digital computer B

SOURCE: Ref. zh. Geodeziya, Abs. 11.52.247

REF SOURCE: Uravnoveshivaniye nivelirnykh, teodolitnykh, poligonometricheskikh i trigonometricheskikh setey na ETsVM Ural. M., Nedra, 1965, 187 str.

TOPIC TAGS: digital computer, computer program, coordinate, trigonometry, polygonometry, theodolite/ Ural digital computer

ABSTRACT: The book contains five programs compiled for the "Ural" computer, providing for operation of the computer in fixed point mode. 1. The node method is used in the program for strict balancing of leveling networks. The following conditions are imposed on the network: number of determined nodal points  $\leq 60$ , number of moves  $\leq 120$ , number of sections  $\leq 25$ . Single moves between solid points can be calculated. Excesses in a network can be obtained from geodetic or geometric leveling. A system of normal equations is solved by the approximation method. 2. Program of separate equalization of polygonometric networks and theodolitic moves. The program is compiled for the node method. Conditions:

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UDC: 528.16(076):681.142.2

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ACC NR: AR6014274

number of determinable nodal points  $\leq 32$ , number of moves  $\leq 64$ , number of lines in move  $\leq 19$ . Equalization of single moves which adjoin solid points is possible; here the number of moves in one series is  $\leq 64$ . There must not be solid directions at the points being determined. Normal equations are solved by the approximation method. The program provides for leveling of free networks. 3. Up to 64 moves can be handled in 1 by a program of strict balancing of single polygonometric moves. The number of sides in a move  $\leq 19$ . Calculation of the move takes  $\sim 2.5-3$  min of machine time. 4. A program of two-group balancing of a polygonometric network permits balancing of networks with  $\leq 8$  nodal points to be determined; number of moves  $\leq 20$ ; number of lines in each move  $\leq 14$ . The program permits balancing of single moves. The system of normal equations is solved by the Gauss method. 5. The method of satisfactory measurements underlies the program of two-group balancing of trigonometric networks. The primary corrections of the directions are determined from the angle conditions, and the secondary, from the sine conditions. The following conditions are imposed on the network: number of points  $\leq 18$ ; number of points determined  $\leq 10$ , number of sides along which at least 1 direction is measured  $\leq 28$ ; length of sides not less than 100 m. There can be unilateral directions in the network. The initial data can be merely the coordinates of the solid points. Lists of working formulas, block diagrams, the order of preparation of the initial data, and the order of operation at the panel of the computer are provided for all programs. Examples of the compilation of the initial data are given. The balanced

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ACC NR: AR6014274

elements of the networks, the allowable and actual deviations, the rms errors of  
a unit weight are printed out in all of the programs. Illustrated. A. Safonov  
[Translation of abstract]

SUB CODE: 09

Card 3/3 vlr



YURKEVICH, I.D., akademik; KUPCHINOV, M.M., kand.sel'skokhoz. nauk  
[Kupchynau, M.M.]

Results of scientific work carried out by academicians and  
corresponding members of the Academy of Sciences of White  
Russia, Department of Biological Sciences. Vestsi AN BSSR.  
Ser.bial.nav. no.2:128-134 '59. (MIRA 12:9)

1. Zam. akademiika-sekretarya Otdela biologicheskikh nauk AN  
BSSR (for Yurkevich). 2. Uchennyi sekretar' Otdela biologiche-  
skikh nauk AN BSSR (for Kupchynau).

(WHITE RUSSIA--BIOLOGICAL RESEARCH)

YURKEVICH, I.D., akademik; KUPCHINOV, M.M. [Kupchynau, M.M.], kand.sel'skokhoz. nauk

Results of scientific work achieved by the academicians and corresponding members of the Department of Biological Sciences of the Academy of Sciences of the White Russian S.S.R. Vestsi AN BSSR. Ser. biial. nav. no.3:120-126 '60. (MIRA 14:1)

1. Zamestitel' akademika-sekretarya Otdeleniya biologicheskikh nauk AN BSSR (for Yurkevich). 2. Uchenyy sekretar' Otdeleniya biologicheskikh nauk AN BSSR (for Kupchinov).

(WHITE RUSSIA--BIOLOGICAL RESEARCH)

YURKEVICH, I.D., akademik; KUPCHINOV, M.M. [Kupchynau, M.M.], kand.sel'skokhoz. nauk

Results of scientific work completed by academicians and corresponding members of the Department of Biological Sciences of the Academy of Sciences of the White Russian S.S.R. in 1960. Vestsi AN BSSR. Ser. biial. nav. no.2:125-133 '61.- (MIRA 14:7)

1. AN BSSR, zamestitel' akademika-sekretar Otdeleniya biologicheskikh nauk AN BSSR (for Yurkevich). 2. Uchenyy sekretar' Otdeleniya biologicheskikh nauk AN BSSR (for Kupchinov).

(WHITE RUSSIA--BIOLOGICAL RESEARCH)

Kupchinov, N.F.

5/107/60/005/05/021/021  
E140/E433

AUTHORS: Bur'yanov, P.D., Duts, V.P., Koshachev, Ye.I.,  
Zheleznyy, I.F. and Kupchinov, N.F.

TITLE: Letter to the Editor: On the publication of the  
Article "Ribbon Kincron Beam in a Longitudinal  
Homogeneous Magnetic Field with Arbitrary Degree of  
Cathode Screening"

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol 5, Nr 5, p 880 (USSR)

ABSTRACT: A brief letter indicates that Alyanovskiy's results  
(Ref 1) have been previously obtained by Korov at the  
Tsaganov Radio Engineering Institute (Ref 2,3,4).  
There are 4 Soviet references.

Card 1/1

KUPCHINOV, N.N.

PEREKHOD, V.I., redaktor; BUDYKO, S.Kh., kandidat tekhnicheskikh nauk;  
SOSNIN, L.I., kandidat biologicheskikh nauk; ROGOVOY, P.P.,  
kandidat biologicheskikh nauk, redaktor; KUPCHINOV, N.N., redaktor;  
ALEKSANDROVICH, Kh., tekhnicheskiiy redaktor

[Collection of scientific studies] Sbornik nauchnykh trudov. Minsk,  
Izd-vo AN BSSR, 1952. 138 p. (MLRA 7:10)

1. Deystvitel'nyy chlen AN BSSR (for Perekhod) 2. Uchenyy sekretar'  
Instituta lesa AN BSSR (for Kupchinov) 3. Chlen-korrespondent AN BSSR  
(for Rogovoy) 4. Akademiya navuk BSSR, Minsk. Institut lesa.  
(Forestry research)

N.N. KUPCHINOV

K.

USSR/Forestry - Forest Cultivation.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15384

Author : N.N. Kupchinov

Inst : Forestry Institute of the Academy of Sciences,  
Bielorussian SSR.

Title : The Growth of the Stand of Pine on the Dried Soil of  
the Bielorussian Forest Ranges.  
(Rost sosnovykh drevostoyev na osushchennykh Zemlyakh  
Belorusskogo Poles'ya).

Orig Pub : Sb. nauchn. rabot po lesn. kh-vu. In-t lesa. AN BSSR,  
1956, vyp. 7, 155-171

Abstract : The pine woods in the swamps of the forest range lands  
belong to the five a and the fifth grades. The vegeta-  
tional conditions improve under the influence of drying:  
the upper swamps are upgraded to the 1-3 and the

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USSR/Forestry - Forest Cultivation.

K.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15384

the transitional swamps to the 2-4 class. The effectiveness of drying up the top swamps is seen with a thickness in the sphagnum peat of less than 50-70 cm. With a greater thickness the drying has no practical value. After drying, besides pine and birch, spruce and oak scrub appear. As a result of drying, the annual increase of pine wood was by some 2 to 3 cubic meters per hectare on the upper swamps and 2 to 5.5 on the transitional ones. The output of large and average sized wood varieties was raised.

Card 2/2

COUNTRY : USSR  
 CATEGORY : Forestry. Forest Biology and Typology. K  
 ABS. JOUR. : Lesbiol., No. 3 1959, No. 10751  
 AUTHOR : Kupchinov, N. N.  
 INST. : ~~AS~~ Belorussian SSR.  
 TITLE : The Influence of the Depth and Quality of Peat on the Pine Growth in Reclaimed Bogs.  
 ORIG. PUB. : Dokl. AN BSSR, 1957, 1, No. 2, 76-79.  
 ABSTRACT : During 1950-1953, there was investigated in Luninetskiy and Osipovichskiy leskhozoes (Belorussia) the pine growth on reclaimed bogs with peat of different thickness and different quality. It was found that the total thickness of peat in reclaimed upland bogs does not influence the growth of the forest if the entire root system of the trees is located within the peat. The greater the thickness of the sphagnum layer, the poorer the forest growth. Drainage of upland swamps for the purpose of forest growing is inexpedient when the thickness of the sphagnum layer of the peat is more than 50-70 centimeters. If peat

CARD: 1/2



COUNTRY :  
CATEGORY :

ABR. JOUR. : RZhBiol., No. 1959, No. 10751

AUTHOR :  
INST. :  
TITLE :

ORIG. PUB. :

ABSTRACT : thickness comprises 0.3-0.5 meters and the root system can reach the mineral ground after drainage, then reclamation produces a positive result in most cases. The efficiency of the forest growth will depend both on the peat thickness and on the abundance of nutrients in peat and in the underlying mineral ground. Investigations show that the improvement in pine growth is influenced not by the depth of the peat but by its ash content. — V. I. Nekrasov

CARD: 2/2

KUPCHINOV, H.H., Cand Agr Sci--(disc) " <sup>Up. library</sup> ~~The~~ Effect of ~~Swamp~~ of forest  
swamps <sup>upon</sup> ~~for~~ the growth and productivity of pine and alder standing trees  
of the <sup>Polesye</sup> ~~Polesye~~ lowland <sup>do</sup> of BSSR." Minsk, 1958. 19 pp (Min of Higher  
Education USSR. Belorussian Forest <sup>Engineering</sup> ~~Technical~~ Inst in S.K.Kirov), 100 co-  
pies (ML, 24-58, 121)

-74-

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KUPCHINOV, N.N.

Regeneration of black alder plantations on improved lands of  
Polesye. Sbor.nauch.rab.Bel.otd.VBO no.1:92-97 '59. (MIRA 14:4)  
(Polesye--Alder)

YURKEVICH, I.D. [Iurkevich, I.D.], akademik; KUPCHINOV, N.N. [Kupchynau, M.M.], kand. sel'skokhoz. nauk

Scientific activities of members and member-correspondents of the Department of Biological and Medical Sciences of the Academy of Sciences of the White Russian S.S.R. Vestsi AN BSSR Ser. Biol., nat. no. 2:132-138 '63 (MIRA 17:3)

1. Zamestitel' akademika-sekretarya Otdeleniya biologicheskikh i meditsinskikh nauk AN BSSR (for Yurkevich). 2. Uchenyy sekretar' Otdeleniya biologicheskikh i meditsinskikh nauk AN BSSR (for Kupchinov).

TERENT'YEV, V.M. [Tsiarients'eu, V.M.]; KUPCHINOV, N.D. [Kupchynau, N.D.]

Summing up the scientific work of academicians and member correspondents of the Department of Biological Sciences of the Academy of Sciences of the White Russian S.S.R. in 1963. Vestsi AN BSSR. Ser. biol. nav. no.2:121-130 '64.

(MIRA 17:11)

1. Zamestitel' akademika-sekretarya Otdeleniya biologicheskikh nauk AN BSSR (for Terent'yev). 2. Uchenyy sekretar' Otdeleniya biologicheskikh nauk AN BSSR (for Kupchinov).

TERENT'YEV, V.M. [TSiarents'au, V.M.], doktor biolog. nauk; KUPCHINOV,  
N.N. [Kupchynau, M.M.], kand. sel'skokhoz. nauk

Results of the scientific activity of academicians and member  
correspondents of the Department of Biology of the Academy of  
Sciences of the White Russian S.S.R. Vostok AN BSSR. Ser.  
biol. nau. no.2s128-138 '65. (MIRA 18:12)

1. Zamestitel' akademika-sekretarya Otdeleniya biologicheskikh  
nauk AN BSSR (for Terent'yev). 2. Nauchnyy sekretar' Otdeleniya  
biologicheskikh nauk AN BSSR (for Kupchinov).

VOLOSHIN, I.F., kand. tekhn. nauk; DOROSHEVICH, M.; KARACHENTSEVA, N.;  
KASPEROVICH, A.A; KUPCHINOV, V.; TYUSHKEVICH, N.; KASPER, M.,  
red.

[Semiconductors and their engineering applications] Polupro-  
vodniki i ikh primeneniye v tekhnike. [By] I.F.Voloshin i dr.  
Minsk, Izd-vo "Belorus'," 1963. 286 p. (MIRA 17:4)

KUPCHINOV, V.N., aspirant

Faraday effect in paraffin-ferrite mixtures (effect of crushing  
of material on the inner fields of ferrites). Trudy MEI no.27:  
232-242 '58. (MIRA 13:4)  
(Ferrates)



KUPCHINOV, V. N., Cand Tech Sci (diss) -- "The effect of internal fields on the Faraday effect in ground ferrites". Moscow, 1960. 13 pp (Min Higher Educ USSR, Moscow Order of Lenin Power Engineering Inst, Chair of the Theoretical Principles of Electrical Engineering), 150 copies (KL, No 15, 1960, 135)

24.2.00

43173  
S/250/62/006/010/005/006  
A062/A101

AUTHOR: Kupchinov, V. N.

TITLE: On determining the resonance field from the magnetic rotation of the wave polarization plane

PERIODICAL: Akademiya nauk BSSR. Doklady. v. 6, no. 10, 1962, 642 - 645

TEXT: When investigating inner magnetic fields of pulverized ferrites by observation of the Faraday effect in a circular waveguide, the outer magnetic field, which corresponds to the gyromagnetic resonance, is determined as that field for which the angle of rotation is null on the curve of rotation of the wave polarization plane. This is correct for waves propagating freely in an unlimited, lossless, gyromagnetic medium, but it is not quite accurate in real experiments because of the effect of the following factors: 1. the waves propagate in waveguides, 2. the medium has losses, 3. the ferrite sample has a finite length. The object of the investigation, reported in this article, was to evaluate the influence of the mentioned factors. The calculations and experiments, reported in the article, demonstrate that determining the resonance field through

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On determining the resonance field...

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.A062/A101

the rotation of the polarization plane leads to an error of only 1 - 2%. It is noted that this error is overlapped by the indefiniteness which exists in the relation between the resultant field, acting on the electron spins, and the internal magnetic field of the ferromagnetic sample. There are 1 figure and 1 table. ✓

ASSOCIATION: Byelorusskiy politekhnicheskiy institut (Byelorussian Polytechnic Institute)

PRESENTED: by N. N. Sirotā, Academician AS BSSR

SUBMITTED: April 15, 1962

Card 2/2

AM4037974

BOOK EXPLOITATION

Voloshin, I.; Doroshevich, M.; Karachentseva, N.; Kasperovich, A.; Kupchinov, V.; Tyushkevich, N.

S/

KUPCHINOV V. N.

TYUSHKEVICH N. I. (Gen. Tech Sci)

Semiconductors and their application in engineering (Poluprovodniki i ikh primeneniye v tekhnike), Minsk, Izd-vo "Belarus", 1963, 286 p. illus., biblio. 8,000 copies printed.

TOPIC TAGS: semiconductor, thermistor, Hall gage, photodiode, phototriode, photoresistance, ferrite

PURPOSE AND COVERAGE: The book describes the basic physical properties of semiconductors and how they are affected by various factors. The design, parameters, and characteristics of thermistor, Hall gages, photodiodes, phototriodes, photoresistances, and ferrites are given. There is also an examination of the operating regimes of electrical circuits and circuits using semiconductors are shown. The book is intended for a broad circle of engineers and technicians working in the automation of production processes.

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Ch. IV. Photodiodes and phototriodes (Candidate of technical sciences, N. Ya. Karachentseva) -- 146

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SUB CODE: EC, SS

SUBMITTED: 04Nov63

NR REF SOV: 119

OTHER: 038

DATE ACQ: 07May64

Card 2/2

KUPCINSKAS, J., prof.

On the problem of the diagnostic value of immunological reactions. Sveik. apsaug. 8 no.7: 3-7 Je'63.

1. Kauno Valstybinis medicinos institutas.

\*

KUPCINSKAS, J. prof.

Some diagnostic problems in joint diseases. Šveik. apsaug. 9  
no. 1:5-9 Ja'64.

\*-

KUPCHINSKAS, Y. K.

Kupcinskās, I. "Spondylitis rhizomelica," Trudy med. fak. Kaunansk. un-ta, Vol. I, 1948, p. 149-59. In Lithuanian, Russian abstract - Bibliog: 6 items

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949



KUPCINSKAS, Y K

Kupcinskis, I. "Short-free diathermy in the diagnosis of pathological infection nuclei (by diagnosis of broncho-adenitis)," Trudy med. fak. Kaunassk. un-ta, Vol. I, 1948, p. 161-68. In Lithuanian, Russian abstract

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

KUPCINSKAS, J.E., professor

Effect of PAS in tuberculosis. Probl. tub. no.5:41-45 8-0 '54.  
(MIRA 7:12)

1. Iz kafedry fakul'tetskoy i gospital'noy terapii (zav. doktor  
meditsinskikh nauk prof. J.E.Kupcinskas) Kaunasskogo meditsinskogo  
instituta.

(TUBERCULOSIS, therapy,

PAS)

(PARAAMINOSALICYLIC ACID, therapeutic use,  
tuberc.)

*KUPCHINSKAS, Yu. K.*  
KUPCHINSKAS, Yu. K., prof. (Kaunas)

The role of autoantigens and autoantibodies in the pathogenesis of internal diseases. Klin.med. 35 no.11:31-36 N '57. (MIRA 11:2)

1. Iz kafedry fakul'tetskoy terapii (zav. Yu.K.Kupchinskay)  
Kaunasskogo meditsinskogo instituta (dir. - prof. Z.I.Yanushkevichus)

(ALLERGY

autoimmun. in pathogen. of internal dis.)

(ANTIGENS,

auto-antigens, pathogen. role in internal dis. (Rus))

(ANTIBODIES,

auto-antibodies, pathogen. role in internal dis. (Rus))

KUPCHINSKAS, Yu.K., prof.

Importance of cold autohemagglutination in rheumatic fever  
and infectious arthritis. Sov.med. 23 no.7:41-44 J1 '59.

(MIRA 12:11)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof.Yu.K.Kupchinskas)  
Kaunasskogo meditsinskogo instituta.

(RHEUMATISM blood)

(ARTHRITIS blood)

(AGGLUTINATION)

KVILCHINSKY, J.

CIBIRAS, P., kand. med. nauk; DAKTARAVICIENE, E., kand. med. nauk;  
JARZEMSKAS, J., kand. med. nauk [deceased]; JOCEVICIENE, A.,  
kand. med. nauk; KRIKSTOPAITIS, M., kand. med. nauk; NENISKIS, J.,  
kand. med. nauk; STEPONAITIENE, L., kand. med. nauk; SURKUS, J.,  
kand. med. nauk; SILMANAS, S., kand. biolog. nauk; CEPULIS, St.,  
prof.; KUPCINSKAS, J., prof.; LASAS, Vl., prof.; SIDERAVICIUS, Br.,  
prof.; KANOPKA, E., dots.; KVIKLYS, V., dots.; LABANAUSKAS, K.,  
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